

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Frank L. Hall

**Serial No.:** Not yet assigned

**Filed:** March 2, 2004

**For:** METHODS FOR PREPARING BALL  
GRID ARRAY SUBSTRATES VIA USE OF  
A LASER

**Examiner:** Unknown

**Group Art Unit:** Unknown

**Attorney Docket No.:** 2269-4718.3US  
(00-0316.03/US)

**NOTICE OF EXPRESS MAILING**

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Date of Deposit with USPS: March 2, 2004

Person making Deposit: Christopher Haughton

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

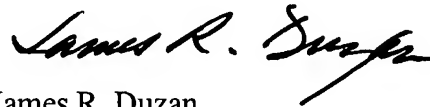
The present application is a divisional of application Serial No. 09/863,676, filed May 21, 2001, pending.

Pursuant to M.P.E.P. 2001.06(b), the Examiner is respectfully requested to consider the information of record in the prior application, and to confirm in the first Office Action on the merits that such art has in fact been reviewed. A PTO-1449 or PTO/SB/08 form listing all of the information of record in the prior application is enclosed herewith.

**Atty. Docket No.: 4718.3US (00-0316.03/US)**

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. 1.17(p) is required.

Respectfully submitted,



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Date: March 2, 2004  
JRD/sls:djp

Enclosures: Form PTO-1449 or PTO/SB/08  
Document in ProLaw

|   |   |   |
|---|---|---|
| Form PTO-1449<br><br><b>INFORMATION DISCLOSURE CITATION<br/>IN AN APPLICATION</b><br><br><i>(Use several sheets if necessary)</i> | Docket Number (Optional)<br><b>4718.3US (00-0316.03/US)</b> | Application Number<br><b>Not Yet Assigned</b> |
|   | Applicant <b>Frank L. Hall</b>                              |   |
|   | Filing Date <b>March 2, 2004</b>                            | Group Art Unit <b>Unknown</b>                 |

### U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE    | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|---------|-------------------|-------|----------|-------------------------------|
|                     | 4,789,427       | 12/1988 | Fujimura et al.   |       |          |                               |
|                     | 5,200,031       | 04/1993 | Latchford et al.  |       |          |                               |
|                     | 5,597,590       | 01/1997 | Tanimoto et al.   |       |          |                               |
|                     | 5,686,211       | 11/1997 | Motegi et al.     |       |          |                               |
|                     | 6,009,888       | 01/2000 | Ye et al.         |       |          |                               |
|                     | 6,021,380       | 02/2000 | Fredriksen et al. |       |          |                               |
|                     | 6,114,097       | 09/2000 | Malba et al.      |       |          |                               |
|                     | 6,221,690       | 04/2001 | Taniguchi et al.  |       |          |                               |
|                     | 6,329,606       | 12/2001 | Freyman et al.    |       |          |                               |
|                     | 6,346,678       | 02/2002 | Kono et al.       |       |          |                               |
|                     | 6,415,977       | 07/2002 | Rumsey            |       |          |                               |
|                     |                 |         |                   |       |          |                               |

### FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation |    |
|--|-----------------|------|---------|-------|----------|-------------|----|
|  |                 |      |         |       |          | YES         | NO |
|  |                 |      |         |       |          |             |    |
|  |                 |      |         |       |          |             |    |
|  |                 |      |         |       |          |             |    |
|  |                 |      |         |       |          |             |    |
|  |                 |      |         |       |          |             |    |

### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

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| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance. Include copy of this form with next communication to the applicant.